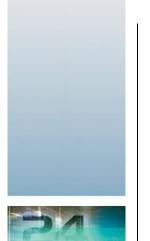


07/28/14



Technical Report for

ISI Environmental Services

Clean Harbors; Wichita, KS

Accutest Job Number: FA16696

Sampling Date: 07/16/14

Report to:

ISI Environmental Services 215 S Laura

Wichita, KS 67211

bgerber@isienvironmental.com; ahealey@isienvironmental.com

ATTN: Brady Gerber

Total number of pages in report: 15



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D. Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),

AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.



Sections:

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	
Section 3: Sample Results	
3.1: FA16696-1: J5-F2-14'	6
3.2: FA16696-2: TRIP BLANK	7
Section 4: Misc. Forms	8
4.1: Chain of Custody	9
Section 5: GC/MS Volatiles - QC Data Summaries	12
5.1: Method Blank Summary	13
5.2: Blank Spike Summary	14
5.3: Matrix Spike/Matrix Spike Duplicate Summary	15



N

ယ





Sample Summary

ISI Environmental Services

Job No: FA16696

Clean Harbors; Wichita, KS

Sample	Collected			Matri	ix	Client
Number	Date	Time By	Received	Code	Type	Sample ID
FA16696-1	07/16/14	13:50 BG	07/17/14	so	Soil	J5-F2-14'
FA16696-2	07/16/14	00:00 BG	07/17/14	so	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Summary of Hits

Job Number: FA16696

Account: ISI Environmental Services Project: Clean Harbors; Wichita, KS

Collected: 07/16/14

Lab Sample ID Client Sample ID Result/ Analyte Qual RL MDL Units Method

FA16696-1 J5-F2-14'

No hits reported in this sample.

FA16696-2 TRIP BLANK

No hits reported in this sample.



Sample Results		
Report of Analysis		



Date Sampled: 07/16/14

07/17/14

VF2177

80.6

Date Received:

Percent Solids:

n/a

Report of Analysis

EP

07/25/14

Client Sample ID: J5-F2-14'

Lab Sample ID: FA16696-1 Matrix: SO - Soil

Method: SW846 8260B BY SIM

Project: Clean Harbors; Wichita, KS

1

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch

n/a

Run #1 Run #2

Initial Weight

F0065727.D

Run #1 8.31 g

Run #2

CAS No. Compound Result RL Units Q

123-91-1 1,4-Dioxane ND 3.7 ug/kg

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

2037-26-5 Toluene-D8 105% 75-126% 17060-07-0 1,2-Dichloroethane-D4 92% 72-135%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



C

Report of Analysis

Client Sample ID: TRIP BLANK

Lab Sample ID:FA16696-2Date Sampled:07/16/14Matrix:SO - Trip Blank SoilDate Received:07/17/14Method:SW846 8260B BY SIMPercent Solids:n/a

Project: Clean Harbors; Wichita, KS

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 F0065728.D 1 07/25/14 EP n/a n/a VF2177

Run #2

Initial Weight

Run #1 5.00 g

Run #2

CAS No. Compound Result RL Units Q

123-91-1 1,4-Dioxane ND 5.0 ug/kg

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

2037-26-5 Toluene-D8 91% 75-126% 17060-07-0 1,2-Dichloroethane-D4 89% 72-135%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Misc.	Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



Accu ACCUTEST:	4405 \	Cha Vincian	ain nd Road, 7-425-670	of (1, Suite (2, 700)	Cus C-15 O FAX: 4	sto Orland 407-4	dy	3281		ea	st	Ac	cute		OB #	6) AGE	<u></u>	OF/
Client/Reporting Information Company Name 1S: Fruronments Address > 15 S. Lews Type Cords to State & Zo 672 Type Cords Brady Greeke E-mail Gogshar & 15 Frur	Pro Sta	Project Nam Street	Project	w.accute t Informat Clean	test.com ation		71	3:15	KS			\$(0.15) \$(si Qu		 nalytic	1	rmetion				Matrix Codes DW - Drinking Wa GW - Ground Wat WW - Waster SW - Surfaces Wat SO - Soil SL - Sludge CI - Oil LIQ - Other Liqui
Accuract Field ID / Point of Collection			SAMPLED BY		TOTAL #	CONTACT CONTAC		OFFILMATION OFFI E	1000 P	DANZ+HOW	DI WATER	-	4 3	706.5								AIR - Air * SOL - Other Soll WP - Wipe
2 Tra Black	7-16-14	1350	KG	50	4				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		k)	XX	X									
													 	+	t.							
						F	#	H	+		H	#	<u> </u>	<u> </u>	-						#	
TURNAROUND TIME (Business Days) Approved By: / Rush Co 7 Day RUSH 5 Day RUSH 3 Day EMERGENCY			□ ∞	OMMERO	Dat ICIAL "A" (I ICIAL "B" (I PA LEVEL	(RESU		ONLY))	on_						\ **\\		Comm	ents / F	Remark		
2 Day EMERGENCY 1 Day EMERGENCY OTHER Emergency or Rush T/A Data Available VIA Email or Lablin			ED	DD'S	PA LEVEL																	
lelinquished by Sampler: Date Time: 7-16-19/1435 Lelinquished by: Date Time: 7-16-19/1435	Recei 2	eived By	3y: /	ime sam	ples char	ige po	3	Relinq	quishe	ed by	4			7-14	-	10 Time 915 10 Time		4	ceived	ÜÜ	<u></u>	

FA16696: Chain of Custody

Page 1 of 3



ACCUTEST'S JOB NUMBER: FALL 696 DATE/TIME RECEIVED: (17-17-14 METHOD OF DELIVERY: FEDEX UPS MRBILL NUMBERS: 8063 2577	CLIENT: ISI PROJECT: Cleus Halbor [MM/DD/YY 24:00] NUMBER OF COOLERS RECEIVED: ACCUTEST COURIER GREYHOUND DELIVERY OTHER 8819
COOLER INFORMATION CUSTODY SEAL NOT PRESENT OR NOT INTACT CHAIN OF CUSTODY NOT RECEIVED (COC) ANALYSIS REQUESTED IS UNCLEAR OR MISSING SAMPLE DATES OR TIMES UNCLEAR OR MISSING TEMPERATURE CRITERIA NOT MET TRIP BLANK INFORMATION TRIP BLANK PROVIDED TRIP BLANK NOT PROVIDED TRIP BLANK NOT ON COC TRIP BLANK NOT INTACT TRIP BLANK NOT INTACT RECEIVED WATER TRIP BLANK MISC. INFORMATION	TEMPERATURE INFORMATION IR THERM ID / CORR. FACTOR (). 4 OBSERVED TEMPS: 2.2 CORRECTED TEMPS: 2.4 SAMPLE INFORMATION INCORRECT NUMBER OF CONTAINERS USED SAMPLE RECEIVED IMPROPERLY PRESERVED INSUFFICIENT VOLUME FOR ANALYSIS DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL ID'S ON COC DO NOT MATCH LABEL VOC VIALS HAVE HEADSPACE (MACRO BUBBLES) BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS SAMPLE CONTAINER(S) RECEIVED BROKEN 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
JMBER OF ENCORES ? 25-GRAM 5-GRAM 5-	% SOLIDS JAR NOT RECEIVED RESIDUAL CHLORINE PRESENT {APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}
CHNICIAN SIGNATURE/DATE RWW.	7-17-14 REVIEWER SIGNATURE/DATE LE 7-17-14

FA16696: Chain of Custody

Page 2 of 3



		_
	ng transport of the state of the	
oc oas		I
J1000 T	Recipient's Copy Express US Airbill	ŕ
	From Dogs 7-16-14	
•		Ų
	Company 5 Fundamental advanced and advanced	
888	Felik Egypta Saver Face Language Control Contr	
1,600,463,3339	5 Packaging Control of the Control o	C
열 2 설 2	Fedfix Envelope" Fedfix Pak" Box Tube	·
70.Gofe	3 To Recipients Santh Phone 407 425-6700 Santh First Standard Committee Trades Sant AM, or Feets Command Santh Recipients Santh Phone 407 425-6700 Santh Recipients Santh Recipi	٠,
edex.com 1800.Gafadiz	No Signature Required Direct Signature to the second of th	C
ex cc	HOLD Weekdary Feds Louetes school Feds Louetes sch	
豆	We specific deliber to P.D. boson or P.D. 20 content. Dept. Proceedings of the content of the	4
	7 Projettedit Bill hav Table 1 Sell Avi. Sell Avi.	37
	D115442513	1
•	Total Packages Total Visight	_
•	That debility is timbed to USSNO unition your restore a higher value. See desirement halfs favoice debits for excelle	ĩ
<u> </u>	8063 2577 8899 Res 2017-Per / ARRIVA 1-0-049-20-4-1-0-1-7-Per (2014) 4-0-4-2-4-1-0-1-7-Per (2014) 4-0-4-2-4-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-

FA16696: Chain of Custody Page 3 of 3





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: FA16696

Account: ISIEKSW ISI Environmental Services

Project: Clean Harbors; Wichita, KS

Sample VF2177-MB	File ID F0065726.D	DF 1	Analyzed 07/25/14	By EP	Prep Date	, -	Analytical Batch VF2177
VF21//-NID	F0003720.D	1	07/23/14	EF	n/a	n/a	V F 2 1 / /

The QC reported here applies to the following samples: Method: SW846 8260B BY SIM

FA16696-1, FA16696-2

CAS No. Compound Result RL Units Q

123-91-1 1,4-Dioxane ND 5.0 ug/kg

CAS No. Surrogate Recoveries Limits

 2037-26-5
 Toluene-D8
 103%
 75-126%

 17060-07-0
 1,2-Dichloroethane-D4
 87%
 72-135%

Blank Spike Summary

Job Number: FA16696

Account: ISIEKSW ISI Environmental Services

Project: Clean Harbors; Wichita, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2177-BS	F0065725.D	1	07/25/14	EP	n/a	n/a	VF2177

Limits

The QC reported here applies to the following samples: Method: SW846 8260B BY SIM

FA16696-1, FA16696-2

Spike BSP BSP CAS No. Compound ug/kg ug/kg %

123-91-1 1,4-Dioxane 50 53.7 107 56-152

CAS No. Surrogate Recoveries BSP Limits

 2037-26-5
 Toluene-D8
 109%
 75-126%

 17060-07-0
 1,2-Dichloroethane-D4
 99%
 72-135%



^{* =} Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary Job Number: FA16696

Account: **ISIEKSW ISI Environmental Services**

Clean Harbors; Wichita, KS **Project:**

Sample FA16822-11MS FA16822-11MSD FA16822-11	File ID F0065747.D F0065748.D F0065744.D	DF 1 1	Analyzed 07/26/14 07/26/14 07/25/14	By EP EP	Prep Date n/a n/a n/a	Prep Batch n/a n/a n/a	Analytical Batch VF2177 VF2177 VF2177

The QC reported here applies to the following samples: Method: SW846 8260B BY SIM

FA16696-1, FA16696-2

CAS No.	Compound	FA16822-11 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	59.4	35.3	114	155*	35.3	82.5	65	32	56-152/37
CAS No.	Surrogate Recoveries	MS	MSD	FA	16822-11	Limits				
2037-26-5	Toluene-D8	86% 107%	106% 98%	98% 97%	-	75-126% 72-135%	-			
17060-07-0	1,2-Dichloroethane-D4	107%	98%	97 %	6	72-135%	ó			



^{* =} Outside of Control Limits.